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L7: Entry 6 of 8

File: USPT

Mar 19, 2002

DOCUMENT-IDENTIFIER: US 6357171 B1

TITLE: Method for aerial distribution of pollinating agents

Brief Summary Text (9):

While the concept of successfully distributing pollinating agents by aerial means is novel and new, the literature has examples of methods for the distribution of biological control agents (parasite/predator insects) by various means including aerial. Maedgen (U.S. Pat. No. 4,260,108) first taught the simple "airborne release and broadcast of loose parasite/predator insect eggs for biological control of insect pests." Show U.S. Pat. No. 4,966,329) advanced the art by distributing predatory mites in a carrier material that required the adequate mixing of the materials and subsequent blowing the particulate/mite mixture on to plants. Tedders (U.S. Pat. No. 5,484,504) introduced another form of carrier for predaceous insects in the form of a string with attached eggs that could be cut "in predetermined lengths to be manually placed on individual plants." Most recently, Carter (U.S. Pat. No. 5,996,276) teaches the use of a biodegradable delivery device (a container) for dispersing biocontrol agents into a field by aerial means. The throwing tool is a mechanical device similar to those used in casting clay pigeons for skeet target practice; the delivery device, a hollow clay pigeon. The biological control agents are described as means to biologically control insect pests as an alternative to chemical insecticides, a desirable benefit in the health-conscious marketplace. The preferred embodiment describes an aerodynamic, biodegradable saucer shaped delivery device containing parasitic wasps. A variety of suitable biological control agents are listed for such deployment, "Lygus hesperus, parasitic wasps such as Aphaelinus nr. paramali, lacewing eggs, parasitic or predaceous mites and spiders, nematodes, and viral or bacterial agents." None of the above teachings nor any of their incorporated references suggest, whether taken singly or in combination, the deployment of anything other than biological control agents for the control of insect pests in crops.

Detailed Description Text (6):

Nesting tubes are not a critical component to the delivery device in all cases, they assists in keeping some solitary pollinator in the target area by providing a ready and convenient nesting site while encouraging a rapid start to pollination activities which provide the supplies for nest building. Other solitary and other non-social pollinators like some flies will seek out nearby natural habitats. The use of the nesting tubes in this example of a delivery device is that of a feature and not a critical element of the aerial pollination method specification. Another feature within this context would be the old-fashion artillery shell shape of the delivery device. This shape is a proven, simple design that has an excellent capacity for stable flight and target acquisition. Examples of enhancement features to improve the aerodynamics characteristics and targeting ability are adding a rifling sabot for rotation when propelled or stabilizing fins when dropped. Another feature that could be employed would be means to control the final resting attitude of the delivery device upon landing. By engineering the exterior shape to facilitate how the delivery device comes to rest, features like the open exposure and subsequent access to the nesting tube entrances can be assured. Use of the weighted nosepiece virtually assures the delivery device lands nose down and topple over on to its side as designed. The delivery device is essentially nothing more than a container conveying the pollinators through the air to a selected landing site. A key requirement is that it keeps the pollination agents together and protected during the aerial trip. The shape and internal structures could be any of a number

of interacting geometric forms including by way of example a circular ring, cone, cube, cylinder, disc, ellipsoid, frustum, hemisphere, paraboloid, parallelepiped, prism, pyramid, rectangular prism, sphere, spheroid and combinations thereof that provide sufficient structural strength and cohesion to survive the deployment.

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L4: Entry 1 of 1

File: PGPB

Mar 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030056427

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030056427 A1

TITLE: Biological control of horn flies

PUBLICATION-DATE: March 27, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Daffunchio, Julio Angel	Buenos Aires		AR	
Palazzo, Eduardo Abel	Buenos Aires		AR	

US-CL-CURRENT: 43/124

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC
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Term	Documents
BIOCONTROL.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	891
BIOCONTROLS.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	6
(2 AND BIOCONTROL).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	1
(L2 AND "BIOCONTROL").USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	1

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1. Document ID: US 20030056427 A1

L4: Entry 1 of 1 File: PGPB Mar 27, 2003

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US-CL-CURRENT: 43/124

Full	Title	CIT.1	REV.1	CLS.1	REF.1	SEQ.1	ATT.1
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BIOCONTROLS.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	6
(2 AND BIOCONTROL).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	1
(L2 AND "BIOCONTROL").USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	1

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L7: Entry 1 of 8

File: PGPB

Mar 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030056427

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030056427 A1

TITLE: Biological control of horn flies

PUBLICATION-DATE: March 27, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Daffunchio, Julio Angel	Buenos Aires		AR	
Palazzo, Eduardo Abel	Buenos Aires		AR	

US-CL-CURRENT: 43/124

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC
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☐ 2. Document ID: US 20030005484 A1

L7: Entry 2 of 8

File: PGPB

Jan 2, 2003

PGPUB-DOCUMENT-NUMBER: 20030005484

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030005484 A1

TITLE: Microbiocidal and pesticidal aromatic aldehydes

PUBLICATION-DATE: January 2, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Crandall, Bradford G. JR.	Davis	CA	US	
Emerson, Ralph W.	Davis	CA	US	

US-CL-CURRENT: 800/279; 514/532, 514/570, 514/701, 514/730

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC
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☐ 3. Document ID: US 20020146394 A1

L7: Entry 3 of 8

File: PGPB

Oct 10, 2002

PGPUB-DOCUMENT-NUMBER: 20020146394
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020146394 A1

TITLE: Mycoattractants and mycopesticides

PUBLICATION-DATE: October 10, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Stamets, Paul Edward	Shelton	WA	US	

US-CL-CURRENT: 424/93.5; 424/195.15

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC
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☐ 4. Document ID: US 20020099101 A1

L7: Entry 4 of 8

File: PGPB

Jul 25, 2002

PGPUB-DOCUMENT-NUMBER: 20020099101
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020099101 A1

TITLE: Use of flavonoid aldehydes as pesticides

PUBLICATION-DATE: July 25, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Emerson, Ralph W.	Davis	CA	US	
Crandall, Bradford G. JR.	Davis	CA	US	

US-CL-CURRENT: 514/729; 514/693, 514/701

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC
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☐ 5. Document ID: US 6551795 B1

L7: Entry 5 of 8

File: USPT

Apr 22, 2003

US-PAT-NO: 6551795
DOCUMENT-IDENTIFIER: US 6551795 B1

TITLE: Nucleic acid and amino acid sequences relating to pseudomonas aeruginosa for diagnostics and therapeutics

DATE-ISSUED: April 22, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rubenfield; Marc J.	Framingham	MA		
Nolling; Jork	Ouincy	MA		
Deloughery; Craig	Medford	MA		
Bush; David	Somerville	MA		

US-CL-CURRENT: 435/69.1; 435/253.3, 435/320.1, 435/325, 435/6, 536/23.1, 536/23.7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Dram. Desc.	Image								

☐ 6. Document ID: US 6357171 B1

L7: Entry 6 of 8

File: USPT

Mar 19, 2002

US-PAT-NO: 6357171

DOCUMENT-IDENTIFIER: US 6357171 B1

TITLE: Method for aerial distribution of pollinating agents

DATE-ISSUED: March 19, 2002

INVENTOR- INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Harper; William A.	Redmond	WA	98052-4492	

US-CL-CURRENT: 47/1.41; 449/1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMCC
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☐ 7. Document ID: US 5799607 A

L7: Entry 7 of 8

File: USPT

Sep 1, 1998

US-PAT-NO: 5799607

DOCUMENT-IDENTIFIER: US 5799607 A

TITLE: Culture medium for parasitic and predaceous insects

DATE-ISSUED: September 1, 1998

INVENTOR - INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Greany; Patrick D.	Gainesville	FL		
Carpenter; James E.	Tifton	GA		

US-CL-CURRENT: 119/6.5

[illegible]

☐ 8. Document ID: US 5512280 A

L7: Entry 8 of 8

File: USPT

Apr 30, 1996

US-PAT-NO: 5512280

DOCUMENT-IDENTIFIER: US 5512280 A

TITLE: Maintenance and long term stabilization of fungal conidia using surfactants

DATE-ISSUED: April 30, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Johal; Sarjit S.	Hopkinton	MA		
Marold; Lorraine M.	Worcester	MA		

US-CL-CURRENT: 424/93.5; 435/254.1, 435/260

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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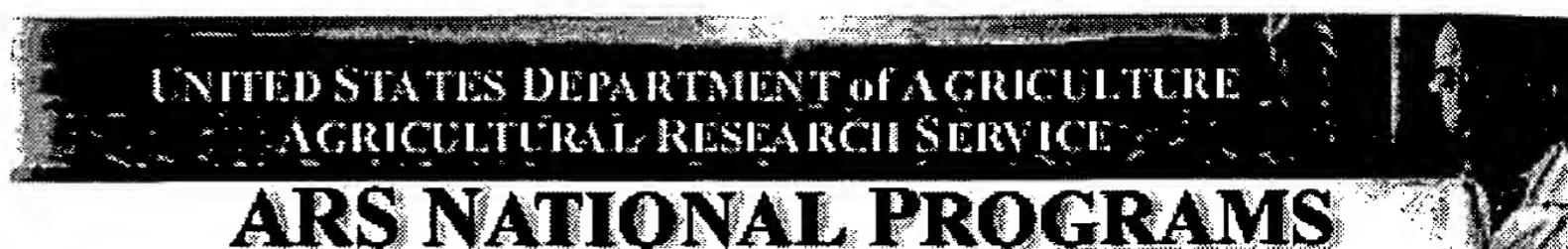
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FLYS.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	489
(6 AND FLY).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	8
(L6 AND "FLY").USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	8

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- ▶ [Planning and Coordination Workshop \(03/11/03\)](#)
- ▶ [Sorghum Research Workshop \(02/19/03\)](#)
- ▶ [NP106 National program planning workshop \(11/20/02\)](#)

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Honey Boosts Beneficial Wasps

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STORY LEAD: Honey Boosts Effectiveness of Parasitic Wasps

ARS News Service Agricultural Research Service, USDA Jim Core, 2002

Feeding honey to a parasitic wasp from Brazil helps it attack pest fly. Research Service scientists and cooperators report.

ARS scientists at the Center for Medical, Agricultural and Veterinary Research at the University of Campinas in Brazil are evaluating the Brazilian wasp from that country that may be biocontrol candidates against flies in the United States.

Certain parasitic wasps native to the United States are now used to control flies on livestock and poultry farms and transport disease-causing organisms at the ARS lab in Gainesville. The parasitic wasps reduce insecticide use. Researchers can buy native parasitic wasps from commercial insectaries.

But the effectiveness of native parasitic wasps is limited, because they lay fewer pupae. One foreign wasp species being evaluated (*Tachinaephagus zealandicus*) Used together, the native and parasitic wasps could attack flies in the fly control.

Unlike native wasps, however, foreign wasps do not derive energy from honey. The researchers found that feeding the wasps honey tripled the amount of progeny developing in flies.

The Gainesville and Brazilian researchers also discovered that honey helps *zealandicus* ward off a debilitating new disease transmitted from females. Females develop into adults and lay substantially more male eggs--a real barrier to biocontrol.

A detailed story about this research appears in the August issue of *Agricultural Research Service News* at <http://www.ars.usda.gov/is/AR/archive/aug02/flies0802.htm>

ARS is the chief scientific research agency of the U.S. Department of Agriculture.

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- ▶ [Summary of the USDA Stakeholder Workshop for Animal Agriculture, November 2001](#)
- ▶ [REE Directory](#)
- ▶ [British Mycological Society, International Symposium on Bioactive Fungal Metabolites](#)
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wasps and flies and biocontrol

The Web

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10. NCSU: ENT/ort-103 BIOCONTROL IN CLOSED SYSTEMS

... task of setting up a biocontrol program for a ... sometimes expended uselessly against shore flies aphids infected with Aphytis wasps are resistant ...

<http://www.ces.ncsu.edu/depts/ent/notes/O&T/production/note103.html>

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Search engine: Overture found 5 results. The query sent was wasps and flies and biocontrol

1. Biocontrol research centers on stable flies

Pesky stable flies may have met their match. Researchers at the University of Nebraska-Lincoln and Research Service are testing tiny parasitic roundworms as biological control agents. They want to de roundworms, ... <http://www.beef-mag.com>

2. Honey Boosts Effectiveness of Parasitic Wasps / August 19, 2002 / News from the USDA Agriculture Information Staff, Agricultural Research Service, USDA. Communicating news and information about <http://www.ars.usda.gov>

3. Western Producer - Male wasps 'a waste of energy', May 17, 2001

May 17, 2001 Male wasps 'a waste of energy' By Mary MacArthur Camrose bureau A Lethbridge entc eliminate males. "Males are unnecessary," says Kevin Floate, who is talking about small parasitic wa flies in <http://www.producer.com>

4. eLibrary.com - M2 PressWIRE 08-19-2002, 'US ARS: Honey boosts effectiveness of parasitic wasp eLibrary is the subscription based online library for fun or research. Find out more about securing yo 7-day trial with your credit card and retrieve 'eLibrary.com - M2 PressWIRE 08-19-2002, 'US ARS: H effectiveness of ... <http://ask.elibrary.com>

5. Honey Boosts Effectiveness of Parasitic Wasps

Click Here for Secure On-line Order Form Supreme Neem Oil 100% Pure Neem Oil, 1600 ppm Azadii choice with order: Perennial Sweet Pea, Royal Oakleaf Lettuce, Autumn Beauty Sunflower or Genove is Back! <http://www.ghorganics.com>

Search engine: Ask Jeeves found 1 results. The query sent was wasps and flies and biocontrol

1. Chalcidoidea (chalcid wasps) Home Page

Arthropods Associated with Livestock Dung This web site is intended to provide current information biology and literature of Chalcidoidea, commonly known as chalcid parasitic wasps. Part of the site i provide... <http://res2.agr.ca/ecorc/apss/chalhome.htm>

[Go to Ask Jeeves for more results](#)

Search engine: Teoma found 10 results. The query sent was wasps and flies and biocontrol

1. A Company Dedicated To Fighting Flies Naturally

Most horse owners have given up on controlling pesky, disease-carrying flies. The problem can seem a waste of time. Not any more! <http://www.happyhooves.com/aboutus.htm>

2. How Fly Parasites Control Flies

View the five stages of a fly's lifecycle and how fly parasites disrupt the cycle and can be used as a control program. http://www.happyhooves.com/cycle_large.htm

3. Trouble in paradise? 'Natural' pest control requires careful

Parasitic wasps and flies have been introduced to Hawaii at least 122 times over the last 100 years in a war against... http://www.eurekalert.org/pub_releases/2001-08/aaft-tip080901.php

4. Biocontrol research centers on stable flies

Some girl wasps just wanna kill flies. And that fact may eventually bring livestock producers a bioco according to... http://beef-mag.com/ar/beef_biocontrol_research_centers/index.htm

5. France-Based Lab Plays Key Role in U.S. Biocontrol Research / April

France-Based Lab Plays Key Role in U.S. Biocontrol Research. By Jan Suszkiw April 17, 2001. Parasites and bacteria abound at... <http://www.ars.usda.gov/is/pr/2001/010417.htm>

6. USDA, ARS, CMAVE, Mosquito and Fly Research Unit Achievements

...and control of microsporidian disease in commercially produced parasitic wasps that are used for control of house flies. <http://cmave.usda.ufl.edu/~mosqfly/achievements.htm>

7. USDA, ARS, CMAVE, Mosquito and Fly Research Unit Technology Transfer

Dispersal of Stable Flies: Phenology of Dispersing Flies. ... Triple whammy of chemicals, lime and pesticides bring relief to people... http://cmave.usda.ufl.edu/~mosqfly/new_page_3.htm

8. Biocontrol

Some of the most effective biocontrol agents are small parasitic wasps and flies. They lay their eggs on insect pests. <http://www.waite.adelaide.edu.au/school/Pests/biocont.html>

9. CABI - Biocontrol News and Information 19(4) December 1999 News -


...florets whose pollen and nectar attract large numbers of bees, wasps, flies and butterflies. ... Root Could Biocontrol Replace... <http://pest.cabweb.org/Journals/BNI/Bni19-4/GENNEWS.HTM>

10. 2002 Index

23 Biobased industrial products from ARS, Apr-2, 16 Biocompetitive exclusion, Jan-18 Biocontrol --c Aug-10 --of melaleuca... <http://www.ars.usda.gov/is/AR/archive/dec02/index1202.htm>

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